10/722,032

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     (FILE 'HOME' ENTERED AT 11:32:49 ON 11 MAY 2005)

     FILE 'BIOSIS, MEDLINE, CAPLUS, WPIDS, USPATFULL' ENTERED AT 11:34:05 ON
     11 MAY 2005
L1           184 S ARRAY AND CHAMBERS AND FLOW CELLS
L2           141 S L1 AND SUPPORT
L3            96 S L2 AND INLET
L4            92 S L3 AND OUTLET
L5            77 S L4 AND CHEMICAL
L6            18 S L5 AND SUPPORT? (6A) CHAMBER?
L7            18 DUP REM L6 (0 DUPLICATES REMOVED)

=> s l5 and array (15a) polymer?
L8             6 L5 AND ARRAY (15A) POLYMER?

=> dup rem l8
PROCESSING COMPLETED FOR L8
L9             6 DUP REM L8 (0 DUPLICATES REMOVED)

=> d l9 bib abs 1-6

L9   ANSWER 1 OF 6  USPATFULL on STN
AN     2004:165271  USPATFULL
TI     Method and apparatus for synthesis of arrays of DNA probes
IN     Cerrina, Francesco, Madison, WI, UNITED STATES
PI     US 2004126757      A1   20040701
AI     US 2002-62967      A1   20020131 (10)
DT     Utility
FS     APPLICATION
LREP   QUARLES & BRADY LLP, 411 E. WISCONSIN AVENUE, SUITE 2040, MILWAUKEE, WI,
       53202-4497
CLMN   Number of Claims: 24
ECL    Exemplary Claim: 1
DRWN   17 Drawing Page(s)
LN.CNT 916
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB     The present invention provides an apparatus and method for constructing
       arrays of DNA sequences using the image of a micromirror array
       projected on a reaction site using projection optics where the
       projection optics have insufficient resolution to fully resolve the
       separation between mirrors of the mirror array.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9   ANSWER 2 OF 6  USPATFULL on STN
AN     2004:138760  USPATFULL
TI     Substrate preparation process
IN     Goldberg, Martin, Saratoga, CA, UNITED STATES
       Diggelman, Martin, Nierdorf, SWITZERLAND
       Hubbell, Earl, Mountain View, CA, UNITED STATES
       McGall, Glenn, San Jose, CA, UNITED STATES
       Ngo, Nam Quoc, Campbell, CA, UNITED STATES
       Morris, MacDonald, Felton, CA, UNITED STATES
       Yamamoto, Mel, Fremont, CA, UNITED STATES
       Tan, Jennifer, Newark, CA, UNITED STATES
       Rava, Richard P., Redwood City, CA, UNITED STATES
PA     Affymetrix, Inc., Santa Clara, CA, UNITED STATES, 95051 (U.S.
       corporation)
PI     US 2004105932      A1   20040603
AI     US 2003-722032     A1   20031125 (10)
RLI    Continuation of Ser. No. US 2000-716507, filed on 20 Nov 2000, GRANTED,
       Pat. No. US 6706875 Continuation of Ser. No. US 1999-244568, filed on 4
       Feb 1999, GRANTED, Pat. No. US 6307042 Continuation of Ser. No. US
       1996-634053, filed on 17 Apr 1996, GRANTED, Pat. No. US 5959098
DT     Utility
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FS APPLICATION
LREP BANNER & WITCOFF LTD.,, ATTORNEYS FOR AFFYMETRIX, 1001 G STREET , N.W., ELEVENTH FLOOR, WASHINGTON, DC, 20001-4597
CLMN Number of Claims: 49
ECL Exemplary Claim: 1
DRWN 20 Drawing Page(s)
LN.CNT 2233
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides novel processes for the large scale preparation of arrays of **polymer** sequences wherein each **array** includes a plurality of different, positionally distinct **polymer** sequences having known monomer sequences. The methods of the invention combine high throughput process steps with high resolution photolithographic techniques in the manufacture of polymer arrays.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 3 OF 6 USPATFULL on STN
AN 2004:66011 USPATFULL
TI Substrate preparation process
IN Goldberg, Martin, San Jose, CA, United States
Diggelman, Martin, Arlesheim, SWITZERLAND
Hubbell, Earl, Mountain View, CA, United States
McGall, Glenn, Mountain View, CA, United States
Ngo, Nam Quoc, Campbell, CA, United States
Morris, MacDonald, San Jose, CA, United States
Yamamoto, Mel, Fremont, CA, United States
Tan, Jennifer, Newark, CA, United States
Rava, Richard P., San Jose, CA, United States
PA Affyemtrix, Inc., Santa Clara, CA, United States (U.S. corporation)
PI US 6706875 B1 20040316
AI US 2000-716507 20001120 (9)
RLI Continuation of Ser. No. US 1999-244568, filed on 4 Feb 1999, now patented, Pat. No. US 6307042 Continuation of Ser. No. US 1996-634053, filed on 17 Apr 1996, now patented, Pat. No. US 5959098
DT Utility
FS GRANTED
EXNAM Primary Examiner: Riley, Jezia
LREP Banner & Witcoff, Ltd.
CLMN Number of Claims: 52
ECL Exemplary Claim: 1
DRWN 22 Drawing Figure(s); 20 Drawing Page(s)
LN.CNT 2189
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides novel processes for the large scale preparation of arrays of **polymer** sequences wherein each **array** includes a plurality of different, positionally distinct **polymer** sequences having known monomer sequences The methods of the invention combine high throughput process steps with high resolution photolithographic techniques in the manufacture of polymer arrays.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 4 OF 6 USPATFULL on STN
AN 2003:172874 USPATFULL
TI **Chambers** for storing arrays
IN Hilson, Richard O., Sunnyvale, CA, UNITED STATES
Peck, Bill J., Mountain View, CA, UNITED STATES
Leproust, Eric M., Campbell, CA, UNITED STATES
PI US 2003118718 A1 20030626
US 6858186 B2 20050222
AI US 2001-35907 A1 20011224 (10)
DT Utility
FS APPLICATION
LREP AGILENT TECHNOLOGIES, INC., Legal Department, DL429, Intellectual Property Administration, P. O. Box 7599, Loveland, CO, 80537-0599
CLMN Number of Claims: 39
ECL Exemplary Claim: 1

DRWN 3 Drawing Page(s)
LN.CNT 1513
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Apparatus and methods are disclosed for storing a plurality of supports having a plurality of **chemical** compounds bound to the surfaces of the supports. In the apparatus, a mechanism for diffusively introducing pressurized gas into the apparatus is in fluid communication with an **outlet** element comprising a plurality of openings. A holding chamber for the supports is in fluid communication with the **outlet** element. The **outlet** element and the holding chamber are disposed such that gas flow through the chamber is substantially uniform and unidirectional. The holding chamber comprises an opening sufficient to permit movement of the supports to and from the holding chamber and comprises a plurality of holding elements for holding the supports.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 5 OF 6 USPATFULL on STN
AN 2001:185473 USPATFULL
TI Substrate preparation process
IN Goldberg, Martin, San Jose, CA, United States
Diggelman, Martin, Arlesheim, Switzerland
Hubbell, Earl, Mountain View, CA, United States
McGall, Glenn, Mountain View, CA, United States
Ngo, Nam Quoc, Campbell, CA, United States
Morris, MacDonald, San Jose, CA, United States
Yamamoto, Mel, Fremont, CA, United States
Tan, Jennifer, Newark, CA, United States
Rava, Richard P., San Jose, CA, United States
PA Affymetrix, Inc., Santa Clara, CA, United States (U.S. corporation)
PI US 6307042 B1 20011023
AI US 1999-244568 19990204 (9)
RLI Continuation of Ser. No. US 1996-634053, filed on 17 Apr 1996, now patented, Pat. No. US 5959098
DT Utility
FS GRANTED
EXNAM Primary Examiner: Riley, Jezia
LREP Banner & Witcoff, Ltd.
CLMN Number of Claims: 10
ECL Exemplary Claim: 1
DRWN 22 Drawing Figure(s); 20 Drawing Page(s)
LN.CNT 2059
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides novel processes for the large scale preparation of arrays of **polymer** sequences wherein each **array** includes a plurality of different, positionally distinct **polymer** sequences having known monomer sequences. The methods of the invention combine high throughput process steps with high resolution photolithographic techniques in the manufacture of polymer arrays.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 6 OF 6 USPATFULL on STN
AN 1999:117669 USPATFULL
TI Substrate preparation process
IN Goldberg, Martin, San Jose, CA, United States
Diggelman, Martin, Arlesheim, Switzerland
Hubbell, Earl, Mountain View, CA, United States
McGall, Glenn, Mountain View, CA, United States
Ngo, Nam Quoc, Campbell, CA, United States
Morris, Macdonald, San Jose, CA, United States
Yamamoto, Mel, Fremont, CA, United States
Tan, Jennifer, Newark, CA, United States
Rava, Richard P., San Jose, CA, United States
PA Affymetrix, Inc., Santa Clara, CA, United States (U.S. corporation)
PI US 5959098 19990928
AI US 1996-634053 19960417 (8)

DT Utility
FS Granted
EXNAM Primary Examiner: Fredman, Jeffrey
LREP Townsend & Townsend & Crew
CLMN Number of Claims: 15
ECL Exemplary Claim: 1
DRWN 22 Drawing Figure(s); 20 Drawing Page(s)
LN.CNT 2111
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides novel processes for the large scale preparation of arrays of **polymer** sequences wherein each **array** includes a plurality of different, positionally distinct **polymer** sequences having known monomer sequences. The methods of the invention combine high throughput process steps with high resolution photolithographic techniques in the manufacture of polymer arrays.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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L2 141 S L1 AND SUPPORT
L3 96 S L2 AND INLET
L4 92 S L3 AND OUTLET
L5 77 S L4 AND CHEMICAL
L6 18 S L5 AND SUPPORT? (6A) CHAMBER?
L7 18 DUP REM L6 (0 DUPLICATES REMOVED)
L8 6 S L5 AND ARRAY (15A) POLYMER?
L9 6 DUP REM L8 (0 DUPLICATES REMOVED)

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L3            96 S L2 AND INLET
L4            92 S L3 AND OUTLET
L5            77 S L4 AND CHEMICAL
L6            18 S L5 AND SUPPORT? (6A) CHAMBER?
L7            18 DUP REM L6 (0 DUPLICATES REMOVED)
L8             6 S L5 AND ARRAY (15A) POLYMER?
L9             6 DUP REM L8 (0 DUPLICATES REMOVED)
L10          166 S L1 NOT L7
L11          161 S L10 NOT L9
L12          161 DUP REM L11 (0 DUPLICATES REMOVED)
L13          135 S L12 AND (STRIP OR PLATE OR FLAT GLASS)
L14          135 S L13 AND CHEMICAL?
L15           87 S L14 AND SYNTHESI?
L16           54 S L15 AND INLET
L17           53 S L16 AND OUTLET
L18           53 S L17 AND STEP?
L19           49 S L1 AND SYNTHES? (4A) ARRAY?
L20        71558 S ARRAY AND CHAMBER?
L21         1160 S L20 AND FLOW CELL?
L22          854 S L21 AND SUPPORT
L23          514 S L22 AND INLET?
L24          371 S L23 AND OUTLET
L25          115 S L24 AND SYNTHES? (3A) ARRAY
L26           62 S L25 AND MOUNT?
L27           62 DUP REM L26 (0 DUPLICATES REMOVED)
L28           62 S L27 NOT L18
L29           43 S L28 AND DROP?

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